IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1.   (currently amended) A motion picture transmission method for transmitting a motion picture signal from an input terminal to a plurality of video reception units, respectively, through a video transmission unit including a compression processing unit and a plurality of transmission lines, each of which has a different transmission speed, said method comprising the steps of:

generating Groups of Pictures (GOPs) having at least an Intra (I) picture and a plurality of Predictive (P) pictures relating to each picture of said motion picture signal in said compression processing unit;

storing the latest of said GOPs at least said I picture and a plurality of said P pictures in a memory unit of said video transmission unit, said memory unit being commonly used via said transmission lines; and

transmitting said I picture and a different number of P pictures each of which is read out from said memory unit on a GOP unit basis and consecutively in response to different transmission speeds of a plurality of said transmission lines from said I picture and a plurality of P pictures stored in said memory unit of said video transmission unit to a plurality of video reception units, respectively.

Claim 2 (canceled).

3.   (previously presented) A motion picture transmission method according to claim 1, wherein said compressing processing unit encodes each said picture of said motion picture signal based on either one of Motion Picture Experts Group (MPEG)-4 and MPEG-2.

4.   (previously presented) A motion picture transmission method according to claim 1, wherein in the case where said motion picture signal comprises:

at least first I picture and second I picture,

a part of said P pictures subsequent to said first I picture is cancelled in response to said transmission speed which is low, and said second I picture is transmitted.

5.   (previously presented) A motion picture transmission method according to claim 1, wherein when the number of said P pictures is cancelled in response to said transmission speed of said transmission line, the part of P pictures immediately preceding said second I picture is cancelled.

Claim 6 (canceled).

7.   (currently amended) A motion picture transmission system comprising:

an input terminal to which a motion picture signal is applied;

a video transmission unit, coupled to said input terminal, for encoding said motion picture signal;

a plurality of transmission lines, coupled to said video transmission unit, for transmitting stream data encoded in said video transmission unit, each of which has a different transmission speed; and

a plurality of video reception units, coupled to a plurality of said transmission lines, respectively, for receiving said stream data transmitted via said transmission lines,

wherein said video transmission unit includes:

a compression processing unit for generating Groups of Pictures (GOPs) having at least an Intra (I) picture and a plurality of Predictive (P) pictures relating to each picture of said motion picture signal,

a memory unit for storing the latest of said GOPs~~said I picture and a plurality of said P pictures~~, said memory being commonly used via said transmission lines; and

selector, including a plurality of stream output units coupled to a plurality of said transmission lines, respectively, for selecting said I picture and a different number of P pictures ~~from said I picture and a plurality of said P pictures stored in said memory unit~~each of which is read out from said memory unit on a GOP unit basis and consecutively in response to said transmission speeds of a plurality of said transmission lines to transmit a plurality of said video reception units, respectively,

wherein said video transmission unit transmits the latest of said GOPs ~~said I picture and a different number of P pictures~~ selected by each of said stream output units~~said selector~~.

Claim 8 (canceled).

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9.   (previously presented) A motion picture transmission system according to claim 7, wherein said selector for selecting a different number of said P pictures in response to said transmission speeds of a plurality of said transmission lines and transmitting the selected number of said P pictures includes means for changing the number of P pictures subsequent to said I picture.

Claims 10 and 11 (canceled).

12.   (currently amended) A motion picture transmission apparatus comprising:

an input terminal to which a motion picture signal is applied;

a coding unit coupled with said input terminal, for converting each picture of said motion picture signal into Groups of Pictures (GOPs) having at least an Intra (I) picture and a plurality of Predictive (P) pictures;

a memory unit for storing the latest of said GOPs~~said I and P pictures relating to each of said pictures of said motion picture signal~~;

an output unit including a plurality of stream output units for outputting said I and P pictures ~~picture~~ each of which is read out from said memory unit on a GOP unit basis and consecutively ;

a plurality of transmission lines, coupled to a plurality of stream output units, respectively, ~~said output unit,~~ for transmitting said I and P pictures~~picture data~~, each of which has a different transmission speed;

a plurality of video reception units, coupled to a plurality of said transmission lines, respectively; and

a control unit for controlling said output unit,

wherein said control unit controls said output unit to output the latest of said GOPs including said I picture and a different number of P pictures ~~picture~~ from said I picture and a plurality of P pictures stored in said memory unit in response to said transmission speeds of said transmission lines, said memory unit being commonly used to a plurality of said transmission lines.

Claim 13 (canceled).

14.   (previously presented) A motion picture transmission apparatus according to claim 12, wherein in the case where said control unit control said output unit to output a different number of said P pictures in response to said transmission speed of said transmission line, and transmitting them, the number of P pictures immediately preceding next I picture is cancelled.

Claim 15 (canceled).

16.   (new) A motion picture transmission method according to claim 1, wherein the different number of said P pictures corresponds the number requested from each of said video reception units, and

wherein in said step of transmitting, said I picture and a different number of P pictures are transmitted from said video transmission unit to each of said video reception units after said video transmission unit receives the request from each of said video reception units.

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17.	(new) A motion picture transmission method according to claim 1, wherein said I and P pictures stored in said memory unit are updated whenever said request from each of said video reception units receives in said video transmission unit, and the updated I and P pictures are transmitted in response to said request from each of said video reception units.

18.	(new) A motion picture transmission method according to claim 17, wherein after said I and P pictures transmitted are received and decompressed in each of said video reception units, a next request is transmitted to said video transmission unit.

19.	(new) A motion picture transmission method according to claim 1, wherein said video transmission unit further includes a plurality of Real Time Transport Protocol (RTP) packet processing units, each of which is coupled to said compression processing unit, and a Transmission Control Protocol-User Datagram Protocol (TCP-UDP) processing unit coupled with said transmission lines, and

wherein said TCP-UDP processing unit collects packet discord ratio information from each of said video reception units , and each of said RTP packet processing unit is read out said I picture and a different number of P pictures from said memory unit in response to said packet discord ratio information, so that said packet discord ratio information becomes zero.